Journal of Luminescence 58 (1994) 417–422
North-Holland

JOURNAL OF
LUMINESCENCE

Author index

Aartsma, T.J., see Louwe, R.J.W. 58 (1994) 154
Abe, S., see Shimoi, Y. 58 (1994) 134
Adachi, S., see Takagi, Y. 58 (1994) 202
Alexander, H., see Oestreich, M. 58 (1994) 123
Argyrakis, P., R. Kopelman and K. Lindenberg, Nonclassical crossovers in binary reactions in one-dimensional systems 58 (1994) 413
Astilean, S., A. Corval, R. Casalegno and H.P. Trommsdorff, Relaxation and photochemistry in pentacene doped benzoic acid crystals 58 (1994) 275

Baak, J., see Schmidt, Th. 58 (1994) 180
Balda, R., see Fernández, J. 58 (1994) 294
Baldacchini, G., M. Cremona, R.M. Montereali, C. Giliberti, A. Scacco, U.M. Grassano and A. Shpak, Thermal conversion of F_A center relaxed excited states in KF:Na^+ 58 (1994) 278
Basun, S.A., A.A. Kaplyanskii and S.P. Feofilov, Photoionization, trapping and recombination processes in optically excited $Li_2Ge_7O_{16}$:Cr crystals 58 (1994) 281
Bayon, J.F., see Jurdyc, A.M. 58 (1994) 316
Bickham, S.R., see Kiselev, S.A. 58 (1994) 23
Bickham, S.R., see Sievers, A.J. 58 (1994) 37
Birnbaum, D., see Kopelman, R. 58 (1994) 380
Blasse, G., see Meijerink, A. 58 (1994) 26
Boonyarith, T., see Martin, J.P.D. 58 (1994) 332
Boulon, G., see Brenier, A. 58 (1994) 284
Bouwen, A., see Leblans, M. 58 (1994) 388
Bowman, S.R., see Ganem, J. 58 (1994) 298
Brenier, A., L.C. Courrol, C. Pédrini, C. Madej and G. Boulon, Looping mechanism in Yb^{3+}–Tm^{3+}–Ho^{3+} doped $Gd_3Ga_5O_{12}$ garnet 58 (1994) 284
Brom, H., see Schmidt, Th. 58 (1994) 180
Broser, I., see Heitz, R. 58 (1994) 237
Broser, I., see Podlowski, L. 58 (1994) 252
Brown, D.W., see Wu, T.-M. 58 (1994) 54
Brown, D.W., see Zhao, Y. 58 (1994) 61
Bürger, A., C. Kryschi, L.O. Schwan and D. Schmid, Ultrafast vibrational relaxation of optically excited O_2-centers in KCl and NaCl 58 (1994) 287
Burki, Y., W. Czaja, V. Capozzi and P. Schwendimann, Dynamics of multiphonon processes in luminescence spectra of oxygen-bound excitons in ZnTe:O 58 (1994) 206

Campbell, J.A., see Fischer, W.W. 58 (1994) 14
Campochiaro, C., C.D. Flint, Z. Hasan, G. Hollingsworth and D.S. McClure, Electron–vibration effects in Cs_2GeF_6:Mn^{4+} using two-photon absorption 58 (1994) 1
Capozzi, V., see Burki, Y. 58 (1994) 206
Casalegno, R., see Astilean, S. 58 (1994) 275
Chen, P.C., see Zilian, A. 58 (1994) 410
Cho, K., H. Ishihara and Y. Ohfuti, Nonlocal aspects of the optical responses of mesoscopic systems (*Invited paper*) 58 (1994) 95
Chua, M., P.A. Tanner and M.F. Reid, Energy transfer between lanthanide ions in elpasolite lattices: electric quadrupole–electric quadrupole interaction 58 (1994) 356
Cina, J.A., see Smith, T.J. 58 (1994) 66
Cina, J.A., see Ungar, L.W. 58 (1994) 89
Collins, J.M. and B. Di Bartolo, Light shifts of sharp lines in RE-doped solids 58 (1994) 290
Corval, A., see Astilean, S. 58 (1994) 275
Courrol, L.C., see Brenier, A. 58 (1994) 284
Cremona, M., see Baldacchini, G. 58 (1994) 278
Cussó, F., see Rodríguez, E. 58 (1994) 353
Czaja, W., see Burki, Y. 58 (1994) 206

Däubler, H., see Yudson, V.I. 58 (1994) 371
De Caro, C., R.W. Visschers, R. van Grondelle and S. Völker, Spectral hole burning in pigment–protein complexes of photosynthetic bacteria 58 (1994) 149
de Mello Donegá, C., see Meijerink, A. 58 (1994) 26
Delevaque, E., see Jurdyc, A.M. 58 (1994) 316
Dennis, W.M., Studies of far infrared generated nonequilibrium phonons (*Invited paper*) 58 (1994) 5
Dennis, W.M., see Wu, H. 58 (1994) 361
Di Bartolo, B., see Collins, J.M. 58 (1994) 290
Dijkhuis, J.I., Dynamics of semiconductors with disorder (*Invited paper*) 58 (1994) 210
Dominoni, M. and N. Terzi, Excited state lattice dynamics 58 (1994) 11
Donegan, J.F., R.P. Stanley, J.P. Doran and J. Hegarty, Exciton dynamics in zinc-rich CdZnTe/ZnTe quantum wells (*Invited paper*) 58 (1994) 216
Doran, J.P., see Donegan, J.F. 58 (1994) 216
Dubowski, J.J., see Takagi, Y. 58 (1994) 202
Dujardin, C., see Moine, B. 58 (1994) 339

Eggert, J.H., H.-k. Mao and R.J. Hemley, Bivibron line widths in solid deuterium at high pressure 58 (1994) 328

Eiermann, H., M. Sonnek and M. Wagner, On a class of squeezed excited states in exciton–phonon and Jahn–Teller systems ("exotic states") 58 (1994) 47

Ellens, A., see Meijerink, A. 58 (1994) 26

Engholm, J.R., see Happek, U. 58 (1994) 17

Era, K., see Hasegawa, A. 58 (1994) 234

Eychmüller, A., T. Voßmeyer, A. Mews and H. Weller, Transient photobleaching in the quantum dot quantum well CdS/HgS/CdS 58 (1994) 223

Feldman, B.J., see Ganem, J. 58 (1994) 298

Feofilov, S.P., see Basun, S.A. 58 (1994) 281

Fernández, J., R. Balda, M.A. Illarramendi and G.F. Imbusch, The relationship between quantum efficiency and average lifetime of Cr^{3+} ions in glass 58 (1994) 294

Fischer, W.W., K.F. Renk, J.A. Campbell and U. Happek, Relaxation of terahertz phonons in mixed crystals exhibiting glass-like properties 58 (1994) 14

Fisk, P.T.H., see Sellars, M.J. 58 (1994) 188

Flinn, G.P., K.W. Jang, J. Ganem, M.L. Jones, R.S. Meltzer and R.M. Macfarlane, Anomalous optical dephasing in crystalline Y_2O_3:Eu^{3+} 58 (1994) 374

Flint, C.D., see Campochiaro, C. 58 (1994) 1

Frank, T., M. Sonnek and M. Wagner, A Fulton–Gouterman view to the exciton–phonon ground state: contrast of anti-squeezing and reflection in Q space 58 (1994) 51

Fröhlich, D., B. Uebbing, T. Willms and R. Zimmermann, Intraband optical Stark effect in CdTe 58 (1994) 227

Gącon, J.C., see Jurdyc, A.M. 58 (1994) 316

Gałązka, R.R., see Suchocki, A. 58 (1994) 396

Ganem, J., S.R. Bowman and B.J. Feldman, Excited-state dynamics of Pr^{3+}:$LaCl_3$ 58 (1994) 298

Ganem, J., see Jang, K.W. 58 (1994) 311

Ganem, J., see Flinn, G.P. 58 (1994) 374

Gebhardt, W., see Naumov, A. 58 (1994) 248

Giliberti, C., see Baldacchini, G. 58 (1994) 278

Glasbeek, M., I. Hiromitsu and J. Westra, Coherent transients of localized triplet states in diamond 58 (1994) 74

Göbel, E.O., see Wada, Y. 58 (1994) 146

Godlewski, M., K. Swiątek and B. Monemar, Recombination processes of rare earth bound excitons 58 (1994) 303

Godlewski, M., A. Suchocki and P.H.M. van Loosdrecht, PL oscillations in $Cd_{1-x}Mn_xTe$ 58 (1994) 230

Goto, T., see Saito, S. 58 (1994) 127

Goto, T., see Ishihara, T. 58 (1994) 241

Grassano, U.M., see Baldacchini, G. 58 (1994) 278

Grinberg, M. and A. Mandelis, Non-radiative fast processes and quantum efficiency of transition metal ions in solids 58 (1994) 307

Gu, P., see Tsujibayashi, T. 58 (1994) 368

Güdel, H.-U., see Oetliker, U. 58 (1994) 350

Gustin, E., see Leblans, M. 58 (1994) 388

Hamilton, J.P., see Zilian, A. 58 (1994) 410

Hanamura, E., see Inoue, J.-i. 58 (1994) 103

Happek, U., see Fischer, W.W. 58 (1994) 14

Happek, U., J.R. Engholm and A.J. Sievers, Relaxation of the SH vibrational stretch mode in As_2S_3 glass 58 (1994) 17

Happek, U., see Mungan, C.E. 58 (1994) 33

Hasan, Z., see Campochiaro, C. 58 (1994) 1

Hasegawa, A., T. Kuroda, K. Inoue, Y. Mitsumori, F. Minami and K. Era, Transient optical reflectivity in layered semiconductors 58 (1994) 234

Hayashi, S., see Tokizaki, T. 58 (1994) 261

Hayashi, T., see Matsumoto, T. 58 (1994) 335

Hayashi, T., see Tsujibayashi, T. 58 (1994) 368

Hegarty, J., see Donegan, J.F. 58 (1994) 216

Heitmann, D., see Oestreich, M. 58 (1994) 120

Heitz, R., B. Lummer, A. Hoffmann and I. Broser, Spontaneous photon echo from the (A^0, X) complex in CdS 58 (1994) 237

Heitz, R., see Podlowski, L. 58 (1994) 252

Hemley, R.J., see Eggert, J.H. 58 (1994) 328

Herren, M., see Watanabe, M. 58 (1994) 198

Hiromitsu, I., see Glasbeek, M. 58 (1994) 74

Hoffmann, A., see Heitz, R. 58 (1994) 237

Hoffmann, A., see Podlowski, L. 58 (1994) 252

Hollingsworth, G., see Campochiaro, C. 58 (1994) 1

Huang, S., see Tian, M. 58 (1994) 191

Huang, S., see Zhao, J. 58 (1994) 268

Huber, D.L., see Wu, H. 58 (1994) 361

Ichida, M., see Kawai, T. 58 (1994) 100

Ichinose, K., see Matsumoto, T. 58 (1994) 335

Ikehara, T., see Itoh, T. 58 (1994) 78

Ikemoto, Y., see Ishihara, T. 58 (1994) 241

Illarramendi, M.A., see Fernández, J. 58 (1994) 294

Imbusch, G.F., see Fernández, J. 58 (1994) 294

Inoue, J.-i. and E. Hanamura, How different are Frenkel and Wannier excitons? $\chi^{(3)}(-\omega; \omega, -\omega, \omega)$ versus the α scaling law 58 (1994) 103

Inoue, K., see Hasegawa, A. 58 (1994) 234

Ishihara, H., see Cho, K. 58 (1994) 95

Ishihara, T., Y. Ikemoto, T. Goto, A. Tsujimura, K. Ohkawa and T. Mitsuyu, Optical gain in an inhomogeneously broadened exciton system 58 (1994) 241

Itoh, T., H. Tsuchi and T. Ikehara, Dynamical polariton concept for exciton absorption process in semiconductors 58 (1994) 78

Jacquier, B., see Jurdyc, A.M. 58 (1994) 316
Jang, K.W., R.S. Meltzer and J. Ganem, Persistent optical coherence loss by UV irradiation in Pr^{3+}:YAG 58 (1994) 311
Jang, K.W., see Flinn, G.P. 58 (1994) 374
Jia, W., see Liu, H. 58 (1994) 324
Jia, W., see Wu, H. 58 (1994) 361
Jin, C., see Zhao, J. 58 (1994) 268
Jones, G.D., Zeeman spectroscopy of H^- local modes in rare-earth doped CaF_2 58 (1994) 20
Jones, M.L., see Flinn, G.P. 58 (1994) 374
Jurdyc, A.M., B. Jacquier, J.C. Gącon, J.F. Bayon and E. Delevaque, Fluorescence line narrowing in erbium-doped silica fibers 58 (1994) 316

Kan'no, K., see Matsumoto, T. 58 (1994) 335
Kan'no, K., see Tsujibayashi, T. 58 (1994) 368
Kaplyanskii, A.A., see Basun, S.A. 58 (1994) 281
Karasawa, T., see Kawai, T. 58 (1994) 100
Kawai, T., M. Ichida, T. Karasawa and T. Komatsu, Anisotropic energy transfer and dynamical behavior of excitons in a layered BiI_3 crystal 58 (1994) 100
Kiselev, S.A., S.R. Bickham and A.J. Sievers, Localized anharmonic defect modes in a one-dimensional lattice with standard two-body nearest-neighbor potentials 58 (1994) 23
Kiselev, S.A., see Sievers, A.J. 58 (1994) 37
Knoester, J., Pump–probe spectroscopy of J-aggregates: a way to measure intermolecular correlations in the frequency disorder (*Invited paper*) 58 (1994) 107
Kobayashi, S. and F. Sasaki, Ultrafast spectroscopy of PICBr J aggregates: the dynamics of large coherence length exciton 58 (1994) 113
Kobayashi, T., Geometrical relaxation in polydiacetylene by pump–pump–probe femtosecond Raman gain spectroscopy 58 (1994) 117
Komatsu, T., see Kawai, T. 58 (1994) 100
Kopelman, R., W. Tan and D. Birnbaum, Subwavelength spectroscopy, exciton supertips and mesoscopic light-matter interactions 58 (1994) 380
Kopelman, R., see Argyrakis, P. 58 (1994) 413
Kowalczyk, L., see Suchocki, A. 58 (1994) 396
Koyama, K., see Okuno, T. 58 (1994) 184
Krausz, E., see Riesen, H. 58 (1994) 176
Krüger, A., C. Kryschi, D. Schmid and H.-P. Trommsdorff, Singlet exciton dynamics of guest impurities in molecular crystals 58 (1994) 321
Krüger, J., see Oestreich, M. 58 (1994) 123
Kryschi, C., see Bürger, A. 58 (1994) 287
Kryschi, C., see Krüger, A. 58 (1994) 321
Kühn, O., see Schreiber, M. 58 (1994) 85
Kuroda, T., see Hasegawa, A. 58 (1994) 234
Kushida, T., see Murakami, H. 58 (1994) 172
Kushida, T., see Watanabe, J. 58 (1994) 194

LaBuda, M.J., see Zilian, A. 58 (1994) 410
Lage, H., see Oestreich, M. 58 (1994) 120
Leblans, M., E. Gustin, A. Bouwen and D. Schoemaker, Influence of OH^- impurities on the relaxation of F centers studied with picosecond optical pulses 58 (1994) 388
Lemaistre, J.P., see Turc, C. 58 (1994) 43
Lemmer, U., see Wada, Y. 58 (1994) 146
Li, W., see Tian, M. 58 (1994) 191
Lindenberg, K., see Wu, T.-M. 58 (1994) 54
Lindenberg, K., see Argyrakis, P. 58 (1994) 413
Liu, G.K. and X. Wu, Analysis of energy upconversion in disordered solids 58 (1994) 365
Liu, H., W. Jia, C.L. Porter and R.J. Reeves, Excitation migration in Cr-doped fosterite crystals 58 (1994) 324
Louwe, R.J.W. and T.J. Aartsma, Optical dephasing and excited state dynamics in photosynthetic pigment–protein complexes 58 (1994) 154
Lummer, B., see Heitz, R. 58 (1994) 237
Luo, B., see Tian, M. 58 (1994) 191

Macfarlane, R.M., see Flinn, G.P. 58 (1994) 374
Madej, C., see Brenier, A. 58 (1994) 284
Malinowski, A., D. Paraschuk, S.V. Popov, N.I. Zheludev, Transient optical excitation breaks time-reversibility in GaAs and InSb crystals 58 (1994) 244
Manabe, Y., see Tokizaki, T. 58 (1994) 261
Mandelis, A., see Grinberg, M. 58 (1994) 307
Manson, N.B. and C. Wei, Transient hole burning in N–V centre in diamond 58 (1994) 158
Manson, N.B., see Sellars, M.J. 58 (1994) 188
Manson, N.B., see Martin, J.P.D. 58 (1994) 332
Mao, H.-k., see Eggert, J.H. 58 (1994) 328
Martin, J.P.D., T. Boonyarith and N.B. Manson, Zeeman dependence of optical/RF double resonances in the C_{4v} centre CaF_2:Ho^{3+} 58 (1994) 332
Masumoto, Y., see Mishina, T. 58 (1994) 82
Masumoto, Y., see Yamamoto, A. 58 (1994) 265
Matsui, A.H., see Nakatani, S. 58 (1994) 343
Matsumoto, T., A. Miyamoto, K. Ichinose, A. Ohnishi, K. Kan'no and T. Hayashi, Time-resolved measurements of excitation spectra for intrinsic emission in alkali iodides 58 (1994) 335
May, V., see Schreiber, M. 58 (1994) 85
McClure, D.S., see Campochiaro, C. 58 (1994) 1
Meijerink, A., C. de Mello Donegá, A. Ellens, J. Sytsma and G. Blasse, Vibronic transitions of rare earth ions (*Invited paper*) 58 (1994) 26
Meltzer, R.S., see Jang, K.W. 58 (1994) 311
Meltzer, R.S., see Flinn, G.P. 58 (1994) 374
Mews, A., see Eychmüller, A. 58 (1994) 223
Minami, F., see Hasegawa, A. 58 (1994) 234
Mishina, T. and Y. Masumoto, Quantum beats in monoclinic ZnP_2 crystals 58 (1994) 82

Mishina, T., see Yamamoto, A. 58 (1994) 265
Mitin, V., see Sirenko, Y.M. 58 (1994) 257
Mitsumori, Y., see Hasegawa, A. 58 (1994) 234
Mitsuyu, T., see Ishihara, T. 58 (1994) 241
Mitsuyu, T., see Tokizaki, T. 58 (1994) 261
Miyamoto, A., see Matsumoto, T. 58 (1994) 335
Mizuno, K., see Nakatani, S. 58 (1994) 343
Moerner, W.E., see Myers, A.B. 58 (1994) 161
Moine, B., C. Dujardin and C. Pedrini, Excited-state absorption of Eu^{2+} ions in pure fluoride crystals 58 (1994) 339
Monemar, B., see Godlewski, M. 58 (1994) 303
Monshouwer, R., see Pullerits, T. 58 (1994) 168
Montereali, R.M., see Baldacchini, G. 58 (1994) 278
Morimoto, S., see Nishimura, H. 58 (1994) 347
Morita, M., see Watanabe, M. 58 (1994) 198
Mungan, C.E., U. Happek and A.J. Sievers, Ultrafast relaxation of the fundamental vibrations of SH^- and OH^- in potassium halides 58 (1994) 33
Murakami, H. and T. Kushida, Fluorescence properties of Zn-substituted myoglobin 58 (1994) 172
Muto, S., see Takagi, Y. 58 (1994) 202
Myers, A.B., P. Tchénio and W.E. Moerner, Vibronic spectroscopy of single molecules: exploring electronic-vibrational frequency correlations within an inhomogeneous distribution (*Invited paper*) 58 (1994) 161

Nakahara, J., see Watanabe, J. 58 (1994) 194
Nakamura, A., see Tokizaki, T. 58 (1994) 261
Nakamura, T., see Nakatani, S. 58 (1994) 343
Nakatani, S., T. Nakamura, K. Mizuno and A.H. Matsui, Interband and intraband exciton scattering in coronene crystal 58 (1994) 343
Nakayama, M., see Yamamoto, A. 58 (1994) 265
Nakayama, M., see Nishimura, H. 58 (1994) 347
Namiki, M., see Okuno, T. 58 (1994) 184
Naumov, A., S. Permogorov, W. von der Osten, H. Stolz, H. Stanzl and W. Gebhardt, Exciton relaxation in MOVPE grown $ZnSe_xTe_{1-x}$ epilayers 58 (1994) 248
Nishimura, H., T. Tsujimoto, S. Morimoto and M. Nakayama, Effects of uniaxial stress on self-trapped excitons in RbI 58 (1994) 347
Núñez, L., see Rodriguez, E. 58 (1994) 353

Oestreich, M., W.W. Rühle, H. Lage, D. Heitmann and K. Ploog, Reduced exciton–exciton scattering in quantum wires 58 (1994) 120
Oestreich, M., W.W. Rühle, J. Krüger and H. Alexander, Picosecond spectroscopy of plastically deformed GaAs 58 (1994) 123
Oetliker, U. and H.-U. Güdel, Optical spectroscopy of Pd^{2+}-doped $CsMgCl_3$ and $CsCdCl_3$ 58 (1994) 350
Ohfuti, Y., see Cho, K. 58 (1994) 95
Ohkawa, K., see Ishihara, T. 58 (1994) 241
Ohnishi, A., see Matsumoto, T. 58 (1994) 335
Okuno, T., K. Tanaka, K. Koyama, M. Namiki and T. Suemoto, Homogeneous line width of Praseodymium ions in various inorganic materials 58 (1994) 184
Ouillon, R., see Turc, C. 58 (1994) 43

Paraschuk, D., see Malinowski, A. 58 (1994) 244
Pédrini, C., see Brenier, A. 58 (1994) 284
Pedrini, C., see Moine, B. 58 (1994) 339
Permogorov, S., see Naumov, A. 58 (1994) 248
Perrin, B., see Turc, C. 58 (1994) 43
Ploog, K., see Oestreich, M. 58 (1994) 120
Podlowski, L., R. Heitz, P. Thurian, A. Hoffmann and I. Broser, Nonradiative transition rates of Fe^{2+} in III–V and II–VI semiconductors 58 (1994) 252
Popov, S.V., see Malinowski, A. 58 (1994) 244
Porter, C.L., see Liu, H. 58 (1994) 324
Pullerits, T., F. van Mourik, R. Monshouwer, R.W. Visschers and R. van Grondelle, Electron–phonon coupling in the B820 subunit form of LH1 studied by temperature dependence of optical spectra 58 (1994) 168

Qin, W., see Zhao, J. 58 (1994) 268

Ranson, P., see Turc, C. 58 (1994) 43
Reeves, R.J., see Liu, H. 58 (1994) 324
Reid, M.F., see Chua, M. 58 (1994) 356
Reineker, P., see Yudson, V.I. 58 (1994) 371
Renk, K.F., see Fischer, W.W. 58 (1994) 14
Riesen, H. and E. Krausz, Stark swept transient hole-burning and excited state dynamics in $[Ru(bpy)_3]^{2+}$ 58 (1994) 176
Rodriguez, E., L. Núñez, J.O. Tocho and F. Cussó, Quantum efficiency measurement in solids by photoacoustic and luminescence experiments 58 (1994) 353
Rühle, W.W., see Oestreich, M. 58 (1994) 120, 123

Saito, S. and T. Goto, Resonant Raman scattering of PbI_2 microcrystallites in E–MAA copolymer 58 (1994) 127
Sakai, H., see Tokizaki, T. 58 (1994) 261
Sasaki, F., see Kobayashi, S. 58 (1994) 113
Scacco, A., see Baldacchini, G. 58 (1994) 278
Schmid, D., see Bürger, A. 58 (1994) 287
Schmid, D., see Krüger, A. 58 (1994) 321
Schmidt, Th., J. Baak, D.A. van de Straat, H. Brom and S. Völker, Temperature dependence of optical line widths and specific heat of rare-earth-doped silicate glasses (*Invited paper*) 58 (1994) 180
Schoemaker, D., see Leblans, M. 58 (1994) 388
Schreiber, M., O. Kühn and V. May, Density matrix theory of dissipative wave packet dynamics 58 (1994) 85

Schreiber, M. and K. Tenelsen, Relaxation in many-electron systems with disorder and Coulomb interaction 58 (1994) 130
Schwan, L.O., see Bürger, A. 58 (1994) 287
Schwendimann, P., see Burki, Y. 58 (1994) 206
Segawa, Y., see Tang, Z.K. 58 (1994) 138
Sellars, M.J., P.T.H. Fisk and N.B. Manson, Long-time spectral diffusion in $LaF_3:Pr^{3+}$ 58 (1994) 188
Shibata, F., see Uchiyama, C. 58 (1994) 406
Shimoi, Y. and S. Abe, Lattice relaxation of photoexcited states in conjugated polymers 58 (1994) 134
Shpak, A., see Baldacchini, G. 58 (1994) 278
Sievers, A.J., see Happek, U. 58 (1994) 17
Sievers, A.J., see Kiselev, S.A. 58 (1994) 23
Sievers, A.J., see Mungan, C.E. 58 (1994) 33
Sievers, A.J., S.A. Kiselev and S.R. Bickham, Localized vibrational modes in perfect crystals (*Invited paper*) 58 (1994) 37
Singh, J., see Thilagam, A. 58 (1994) 142
Sirenko, Y.M. and V. Mitin, Phonon-assisted trapping and detrapping of an electron in quantum wells and wires by ionized impurity 58 (1994) 257
Smith, T.J., L.W. Ungar and J.A. Cina, Resonant short-pulse effects on nuclear motion in the electronic ground state 58 (1994) 66
Sonnek, M., see Eiermann, H. 58 (1994) 47
Sonnek, M., see Frank, T. 58 (1994) 51
Spano, F.C., Nonlinear optical response of $(AB)_x$ chains 58 (1994) 392
Stanley, R.P., see Donegan, J.F. 58 (1994) 216
Stanzl, H., see Naumov, A. 58 (1994) 248
Stolz, H., see Naumov, A. 58 (1994) 248
Suchocki, A., L. Kowalczyk and R.R. Gałązka, Nonlinear refraction and optical bistability in $Cd_{1-x}Mn_xTe$ 58 (1994) 396
Suchocki, A., see Godlewski, M. 58 (1994) 230
Suemoto, T., see Okuno, T. 58 (1994) 184
Svirko, Yu.P. and N.I. Zheludev, A new principle of optical diagnostics of broken time reversibility in solids using unpolarized light 58 (1994) 399
Świątek, K., see Godlewski, M. 58 (1994) 303
Sytsma, J., see Meijerink, A. 58 (1994) 26
Szabo, A., Frozen core effects on nonexponential photon echo decay in ruby at high fields 58 (1994) 403

Tackeuchi, A., see Takagi, Y. 58 (1994) 202
Takagi, Y., S. Adachi, S. Takeyama, A. Tackeuchi, S. Muto and J.J. Dubowski, Ultrafast exciton spin relaxation in GaAs/AlGaAs and CdMnTe multiple quantum wells 58 (1994) 202
Takeyama, S., see Takagi, Y. 58 (1994) 202
Tan, W., see Kopelman, R. 58 (1994) 380
Tanaka, K., see Okuno, T. 58 (1994) 184
Tang, Z.K., A. Yanase, T. Yasui and Y. Segawa, Quantization of exciton in ultrathin CuCl epitaxial films 58 (1994) 138
Tanner, P.A., see Chua, M. 58 (1994) 356
Tchénio, P., see Myers, A.B. 58 (1994) 161
Tenelsen, K., see Schreiber, M. 58 (1994) 130
Terzi, N., see Dominoni, M. 58 (1994) 11
Thilagam, A. and J. Singh, Polarons in quantum wells: two-dimensional structures 58 (1994) 142
Thurian, P., see Podlowski, L. 58 (1994) 252
Tian, M., B. Luo, W. Li, S. Huang and J. Yu, Thermal stability of spectral hole and electron–phonon interaction in donor–acceptor electron transfer system 58 (1994) 191
Tocho, J.O., see Rodríguez, E. 58 (1994) 353
Tokizaki, T., H. Sakai, A. Nakamura, Y. Manabe, S. Hayashi and T. Mitsuyu, Nonlinear exciton absorption of ZnCdSe/ZnSSe superlattices in femtosecond time region 58 (1994) 261
Toyoda, K., see Tsujibayashi, T. 58 (1994) 368
Trommsdorff, H.-P., see Krüger, A. 58 (1994) 321
Trommsdorff, H.P., see Astilean, S. 58 (1994) 275
Tsuchi, H., see Itoh, T. 58 (1994) 78
Tsujibayashi, T., K. Toyoda, T. Hayashi, M. Watanabe, P. Gu and K. Kan'no, Intersystem-crossing, momentum relaxation and self-trapping of excitons in alkali iodides 58 (1994) 368
Tsujimoto, T., see Nishimura, H. 58 (1994) 347
Tsujimura, A., see Ishihara, T. 58 (1994) 241
Turc, C., R. Ouillon, B. Perrin, P. Ranson and J.P. Lemaistre, Vibron states dynamics in molecular alloys 58 (1994) 43

Uchiyama, C. and F. Shibata, A prototype of a non-equilibrium open system: a microscopic laser theory 58 (1994) 406
Uebbing, B., see Fröhlich, D. 58 (1994) 227
Ungar, L.W., see Smith, T.J. 58 (1994) 66
Ungar, L.W. and J.A. Cina, Short time semiclassical dynamics of optical processes in condensed phases 58 (1994) 89

van de Straat, D.A., see Schmidt, Th. 58 (1994) 180
van Grondelle, R., see De Caro, C. 58 (1994) 149
van Grondelle, R., see Pullerits, T. 58 (1994) 168
van Loosdrecht, P.H.M., see Godlewski, M. 58 (1994) 230
van Mourik, F., see Pullerits, T. 58 (1994) 168
Visschers, R.W., see De Caro, C. 58 (1994) 149
Visschers, R.W., see Pullerits, T. 58 (1994) 168
Völker, S., see De Caro, C. 58 (1994) 149
Völker, S., see Schmidt, Th. 58 (1994) 180
von der Osten, W., see Naumov, A. 58 (1994) 248
Voßmeyer, T., see Eychmüller, A. 58 (1994) 223

Wada, Y., U. Lemmer, E.O. Göbel and M. Yamashita, Time-resolved luminescence study of self-trapped exciton relaxation in ordered and disordered one-dimensional MX-chain systems 58 (1994) 146
Wagner, M., see Eiermann, H. 58 (1994) 47
Wagner, M., see Frank, T. 58 (1994) 51

Watanabe, J., J. Nakahara and T. Kushida, Competition between ultrafast energy relaxation and population relaxation in the excited state of β-carotene in solution 58 (1994) 194
Watanabe, M., M. Herren and M. Morita, Picosecond luminescence and excitation energy transfer in J- and H-aggregates of cyanine dyes on colloidal silica 58 (1994) 198
Watanabe, M., see Tsujibayashi, T. 58 (1994) 368
Wauer, J., see Zimmermann, R. 58 (1994) 271
Wei, C., see Manson, N.B. 58 (1994) 158
Weller, H., see Eychmüller, A. 58 (1994) 223
Westra, J., see Glasbeek, M. 58 (1994) 74
Willms, T., see Fröhlich, D. 58 (1994) 227
Wright, J.C., see Zilian, A. 58 (1994) 410
Wu, H., W.M. Dennis, W.M. Yen, W. Jia and D.L. Huber, Decay of fluorescence from phonon-assisted optical transitions in $CsMnCl_3 \cdot D_2O:Co^{2+}$ 58 (1994) 361
Wu, T.-M., D.W. Brown and K. Lindenberg, On the role of local vibrational modes in excimer formation 58 (1994) 54
Wu, X., see Liu, G.K. 58 (1994) 365
Xiao, L., see Zhao, J. 58 (1994) 268
Yamamoto, A., T. Mishina, Y. Masumoto and M. Nakayama, Coherent oscillation of zone-folded phonons in GaAs–AlAs superlattices 58 (1994) 265
Yamashita, M., see Wada, Y. 58 (1994) 146
Yanase, A., see Tang, Z.K. 58 (1994) 138
Yasui, T., see Tang, Z.K. 58 (1994) 138
Yen, W.M., see Wu, H. 58 (1994) 361
Yu, J., see Tian, M. 58 (1994) 191
Yu, J., see Zhao, J. 58 (1994) 268
Yudson, V.I., H. Däubler and P. Reineker, Excimer formation in molecular crystals 58 (1994) 371
Zhang, X., see Zhao, J. 58 (1994) 268
Zhang, Y., see Zhao, J. 58 (1994) 268
Zhao, J., X. Zhang, F. Zhou, C. Jin, W. Qin, S. Huang, J. Yu, B. Zou, Y. Zhang and L. Xiao, Measurements of diffusion coefficients and carrier recombination times of PbS and Cu_2O semiconductor clusters by time-delayed four wave mixing with incoherent light 58 (1994) 268
Zhao, Y. and D.W. Brown, Robustness of the single dressing fraction characterization of polaron structure in multi-mode partial dressing theory 58 (1994) 61
Zheludev, N.I., see Malinowski, A. 58 (1994) 244
Zheludev, N.I., see Svirko, Yu.P. 58 (1994) 399
Zhou, F., see Zhao, J. 58 (1994) 268
Zilian, A., M.J. LaBuda, J.P. Hamilton, P.C. Chen and J.C. Wright, Infrared four-wave-mixing interferometry 58 (1994) 410
Zimmermann, R., see Fröhlich, D. 58 (1994) 227
Zimmermann, R. and J. Wauer, Non-Markovian relaxation in semiconductors: an exactly soluble model 58 (1994) 271
Zou, B., see Zhao, J. 58 (1994) 268

Journal of Luminescence 58 (1994) 423–425
North-Holland

JOURNAL OF
LUMINESCENCE

Subject index

Absorption
– excited state 284, 339
– photoinduced 134
– two-photon 1
Aggregates 107
Alloy 43
Anharmonic modes 23
Auger effect 303

Binary reactions 413
Bivibron 328

Charge density wave 392
Coherence 74
Coherent propagation 82
Color center 158
Color centers 388
Concentration enhancement 26
Constrained dynamics
– hierarchically 172
Correlation 130

Defect 23, 275
– chemical 287
– vibronic dynamics 11
Degree of polarization 399
Density matrix 85
Dephasing 89, 180, 216, 374
Disorder 210
Disordered systems 14
Dissipative environment 85
Double resonance 332
Dynamics 216
Dynamics
– semiclassical 89

Electron–phonon coupling 168
Electron–phonon interaction 271
– strong 371
Energy relaxation 194
Energy transfer 47, 51, 100, 149, 176, 198, 356, 365
Epilayers 248
Excimers 54, 371
Excitation spectrum 335

Excitation
– two-photon 26
Exciton 82, 100, 103, 107, 113, 154, 227, 248, 343
– bleaching 210
– bound 206, 303
– dynamics 361
– inhomogeneous broadening 241
– luminescence 368
– polariton 78, 138
– polaron 134
– self-trapped 146, 335, 347
– singlet 321
– transport 321
– triplet 78, 134
Exciton–phonon coupling 47, 51

FA center 278
Fluorescence line narrowing 316
Fluorescence
– decay 361
– mid-infrared 298
– time-resolved 172
Four-wave mixing 268, 410
– degenerate 237, 324
Frozen core 403

H^- local mode 20
Hole burning 158, 176, 184, 188, 191
– spectral 149
Hopping 130
Hyperpolarizability 392

Jahn–Teller effect 1

Light-induced shifts 290
Line width 328
– homogeneous 184
Localization 248
Localized modes 37
Localized vibrational modes 54
Luminescence 278, 343
– multiphonon 206
– picosecond 198
– time-resolved 146

Mesoscopic structures 138
Mesoscopic systems 95, 380
Molecular crystals
– organic 371
Myoglobin 172

Narrowing
– motional 107
Near-field microscopy 380
Near-field spectroscopy 380
Non-radiative transitions 388
Nonequilibrium 406
Nonlinear optics 107
Nonlinear response 103
Nuclear motion
– coherent 66
N–V center 158

Octahedrally coordinated Pd^{2+} 350
Optical absorption
– transient 244
Optical bistability 396
Optical gain 241
Optical nonlinearity 261
Optical response
– nonlinear 95, 392
Optical spectroscopy
– ultrafast 268

Partial dressing 61
Phonon
– coherent 265
– nonequilibrium 5
– zone-folded acoustic 265
Phonons 14
Photoacoustics 353
Photobleaching
– transient 223
Photochemistry 275
Photoionization 281
Photoluminescence 230
Photon echo 154, 237, 311, 374
Photon echoes 403
Photopyroelectric spectroscopy 307
Photosynthesis 154
Pigment–protein complexes 149
Plastic deformation 123
Polarization 399
Polaron 61, 142
Propagator
– short-pulse 66
Pump–probe method
– femtosecond 261
Pump–probe spectroscopy 107

Quadrupole 356
Quantum beat 82
Quantum beats 234
Quantum dot 223
Quantum efficiency 252, 294
Quantum efficiency 353
Quantum well 142, 223, 257
– luminescence 216
Quantum wells 202
Quantum wire 120, 257

Raman gain spectrum 117
Raman scattering 127
Raman spectroscopy 43
Rare earths 303
Recombination 281
– non-radiative 252
Reflectivity
– transient 234
Refraction
– nonlinear 396
Relaxation 130, 275
– electronic 11
– femtosecond 202
– non-Markovian 271
– picosecond lattice 11
– vibrational 85, 287

Saturation 17
Saturation libration 33
Scaling laws 413
Scattering
– reduced 120
Self-focusing 396
Self-trapping 51
Semiconductor
– dynamics 210
– semimagnetic 230
Single-molecule spectroscopy 161
Specific heat 180
Spectral diffusion 188
Spin dynamics 74
Squeezed states 47
Stark effect 176, 316
– optical 227
Stimulated emission 287
Stokes shift
– dynamic 194
Sudden jump model 403
Superlattice 265
– strain-layered 261

Temperature cycling 191
Time reversibility 244, 399
Transient dichroism
– ultrafast 66
Transient gratings
– picosecond 321

Transitions
– non-radiative 307
Trapping 257
Triplet state 368

Ultrafast spectroscopy 113
Uniaxial stress 347
Up-conversion 284, 298, 365
UV irradiation 311

Vibrational modes 17
Vibrational spectrum
– femtosecond 117
Vibron 43
Vibronics 26, 161

Zeeman effect 332
Zeeman spectroscopy 20